

[NAME OF THE DOCUMENT]

ABSTRACT OF THE DISCLOSURE

[ABSTRACT]

[SUBJECT]

There is a problem that a wavelength dispersion varying with time is efficiently and precisely compensated in an optical fiber communication system.

[SOLVING MEANS]

A variable dispersion compensation device 1 comprises a pulsed-current supplying circuit 10 for producing a desired temperature distribution in the grating by generating and respectively supplying a plurality of pulsed currents to the plurality of heaters 3-1 to 3-n so as to dynamically compensate wavelength dispersion varying with time of incident optical signal to an optical waveguide 2 forming a grating.

[SELECTED DRAWING]

Fig. 1